

# DELL EMC VXBLOCK SYSTEM 1000

#1 in converged,\* now all in one system

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## The leader in converged infrastructure

Enterprises everywhere are increasingly adopting converged infrastructure (CI) as one of the best ways to rapidly adopt new technologies, reduce risk, and simplify operations. Dell EMC has enabled thousands of customers worldwide to drive business innovation and digital transformation. If you are looking for an innovative way to deploy a modern SAN-based IT infrastructure with industry-leading technologies, allowing you to focus on your business and less on infrastructure management, the Dell EMC VxBlock System 1000 is for you.

VxBlock System 1000 fully integrates industry-leading technologies—including Dell EMC storage technologies, Cisco UCS blade and rack servers, Cisco LAN and SAN networking, VMware virtualization, and Dell EMC data protection options—into one system delivering a turnkey, engineered experience.

Why is that important? Today, 84% of converged infrastructure users say that CI has made their IT environment more agile\*\*. VxBlock System 1000 takes the complexities out of component integration. It simplifies upgrades, and ongoing management, and it comes with single-call support for all your compute, network, storage, virtualization, and data protection requirements.

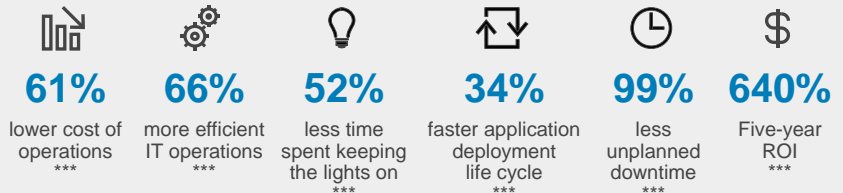
## Delivering real business results

Enterprises using Dell EMC VxBlock Systems report significantly better business outcomes, including lower costs, faster time-to-deploy, simpler life cycle management, less time focused on infrastructure management, and more time dedicated to new business initiatives.

### ESSENTIALS

- **Greater business agility** offering an unprecedented choice of technologies suitable for all workloads in one system
- **Improved data center efficiency** pooling and sharing resources to maximize utilization and ROI
- **Better operational simplicity** delivering a turnkey, engineered system experience

## VXBLOCK



### Customer Quote:

*"The agility, scalability, and performance of VxBlock help us increase revenue. The quicker we get a product or service to market, the faster we can realize revenue."*

\* Source: IDC Worldwide 4Q17 Converged Systems Tracker, published April 2018

\*\* Source: [ESG Tech Refresh-driven infrastructure evolution courtesy of Dell EMC VxBlock Systems September 2017](#)

\*\*\* Source: Based on an IDC whitepaper sponsored by Dell EMC, ["The Business Value of Modernizing Mission-Critical Applications with Dell EMC VxBlock Systems, October 2017"](#), where IDC interviewed organizations that chose VxBlock Systems as their primary IT platform. Actual results may vary.

## #1 FOR A REASON

Delivering real business results

“Installing the converged VxBlock System allowed us to take a ten year step forward in technology with a single purchase. By using the VxBlock System to transform our data center, we now have the ability to deploy solutions in hours as opposed to weeks.” — Ryan Deppe, Network Operations Supervisor, Cianbro Corporation

“Digital transformation starts with setting the right IT foundations. You don't just go straight to a digitally transformed business—it is a continuous journey. At Bumrungrad Hospital, we are transforming step-by-step, day-by-day to make the hospital safer, faster, and more robust.” — Dickon Smart-Gill, Corporate Chief Information Officer, Bumrungrad International Hospital

“The VxBlock has enabled us to make tremendous positive changes. Our users are thrilled with the IT team's responsiveness and with the accelerated application performance. It's also changed the relationship between IT and the college. Business units now engage us to consult early in their decision process. We've become an integral partner in college business.” — Mark Wiseley, Senior Director of IT, Palmer College

“We're now 100 percent responsive to the business.” — Michael Tomkins, Chief Technology Officer, Fox Sports Australia

The VxBlock System 1000 redefines the converged infrastructure market so you can free up even more resources to focus on innovation and accelerate your IT transformation. Benefits include

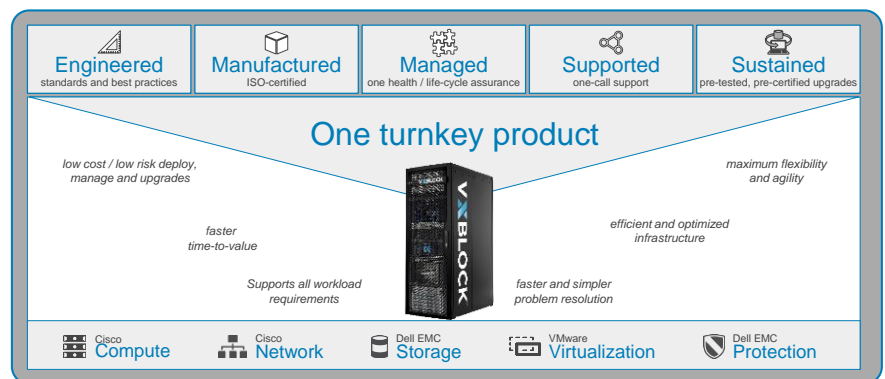
- **Greater business agility** with the ability to choose the right mix of resources and data services that your evolving applications need, when they need them
- **Improved data center efficiency** by pooling and sharing resources to maximize utilization, eliminate stranded capacity, and increase ROI
- **Better operational simplicity** through a turnkey, automated engineered system experience and life cycle assurance that free up resources allowing you to focus on innovation rather than infrastructure management

### VxBlock System 1000 overview

Traditional converged infrastructure systems often require you to choose different systems for different applications' performance, capacity, and data services needs. The VxBlock System 1000 breaks the boundaries of traditional CI by offering the industry's first converged system designed for all workloads in the modern data center with

- Unprecedented **choice** to mix, share, and adapt pools of market-leading storage, data protection, and compute resources for all workloads to maximize performance and utilization
- **Trusted life cycle assurance** with a unique Release Certification Matrix (RCM) and a dynamic customer accessible RCM portal that provides proactive, customized recommendations to accelerate and simplify the infrastructure update process
- **NVMe-ready** to ensure that your system is future-proofed to deliver on extreme performance requirements

#1 in Converged, now all in one system—gives you greater **business agility**, improved **data center efficiency** and better **operational simplicity** to accelerate your IT and digital transformation.












VxBlock System 1000 brings together leading technologies from Dell EMC (include mixing Dell EMC Unity, VMAX, XtremIO, Isilon, Avamar, Data Domain, NetWorker, RecoverPoint, and VPLEX options), Cisco (include mixing Cisco USC B-Series and C-Series servers, Nexus LAN, and MDS SAN switches), and VMware (including vSphere and vCenter).

All system elements are pre-integrated, pre-configured, then tested and validated before shipping. Turnkey integration allows you to operate and manage your system as a single engineered product, rather than as individual, siloed components. Ongoing, component-level testing, and qualification result in a drastically simplified update process. The result is significant time and resource savings throughout the system life cycle, allowing you to focus your resources on business innovation.

### Integrated data protection

Dell EMC Data Protection for Converged Infrastructure simplifies backup, recovery, and failover of your VxBlock System 1000. Dell EMC offers the most advanced data deduplication, replication, and data protection technologies for achieving your Recover Point Objective (RPO) and Recover Time Objective (RTO) requirements.

**Mixed technologies, all in one system**

|                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>General Purpose</b>    |  |  |  |  |  |
| <b>Enterprise</b>         | Cisco UCS Rack Servers                                                            | Cisco LAN Switch                                                                  | Dell EMC Unity                                                                    | Dell EMC XtremIO                                                                  |                                                                                   |
| <b>Mission Critical</b>   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| <b>Big Data Analytics</b> |  |  |  |  |                                                                                   |
| <b>Cloud</b>              | Cisco UCS Blade Servers                                                           | Cisco SAN Switch                                                                  | Dell EMC VMAX                                                                     | Dell EMC Isilon Gen 6                                                             |                                                                                   |

**Unprecedented CHOICE** | Multiple storage, compute and data protection options for all modern workloads

**SIMPLIFIED** | 1-centralized management platform

**Future-proofed NVMe-READY** | 1-life cycle management process for mixed technologies

**Designed to support next generation technologies** to address extreme performance, scalability and simplicity

Note: Support for Dell EMC PowerMax and other new-generation technologies will be introduced starting in the summer of 2018.

### Driving new innovations

Dell EMC's ability to fully integrate multiple different leading technologies into one solution does not stop at compute, networking, and storage alone. VxBlock System 1000 introduces the AMP-VX, a centralized management infrastructure that supports up to eight individual Dell EMC VxBlock Systems.

The AMP-VX includes Avamar Virtual Edition software with integrated Data Domain appliance for dedicated protection of all your management infrastructure. It also includes Dell EMC Vision Intelligent Operations providing intelligence and visualization software that enables standardized, repeatable IT processes to keep your converged infrastructure systems healthy, stable, optimized, and secure.

The VxBlock System 1000 ships in an intelligent physical cabinet that is designed for optimal energy efficiency (including real-time power and thermal monitoring), tidier cabling, and greater built-in security and compliance.

The VxBlock System 1000 is designed to support next-generation technologies, like Dell EMC PowerMax, Cisco UCS generation 4, VMware Validated Design (VVD), and more.

### Single-call support

Dell EMC delivers fully integrated, 24/7 support with a single phone call. There's never any finger-pointing between vendors, and you can always rely on our fully cross-trained team for a fast resolution to any problem.

## WITH LEADING ALL-FLASH STORAGE



**Unity**

General-purpose workload requirements

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Unified file & block  
Proven reliability  
Scale-up



**XtremIO**

Enterprise workload requirements

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Purpose-built all flash  
In-line, all the time services  
Scale-up and scale-out



**VMAX**

Mission-critical enterprise workload requirements

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Gold standard availability  
Rich data services  
Scale-up and scale-out



**Isilon**

Big-data / analytics workload requirements

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All flash, hybrid and archival  
Single namespace/file system  
Scale-out NAS

## VxBlock System 1000 specification summary

| Component                                                                                  | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>COMPUTE</b><br>(Note: mixing blade servers and rack servers in one system is supported) | <b>Chassis:</b> Cisco UCS 5108<br><b>Cisco UCS B-Series blade servers:</b> B200 M4, B260 M4, B420 M4, B460 M4, B200 M5<br><b>Cisco UCS C-Series rack servers:</b> C220 M4 (SFF and LFF), C240 M4 (SFF and LFF), C220 M5, C240 M5<br><b>Cisco Fabric Extenders (FEX):</b> Cisco UCS 2304 XP and Nexus 2348 UPQ<br><b>Cisco Fabric Interconnect (FI):</b> Cisco UCS 6332-16UP<br><b>Cisco UCS Virtual Interface Card (VIC):</b> 1225, 1227, 1340, 1380, 1385, 1387                                                         |
| <b>MAXIMUM NUMBER OF SERVERS</b>                                                           | Cisco chassis: 50<br>Cisco blade servers: 400<br>Cisco rack mount servers: 800                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>NETWORKING</b>                                                                          | <b>LAN:</b> Cisco Nexus 93180YC-FX and 93180LC-EX for 10G or 40G network connectivity between FEX and FI<br><b>SAN:</b> Cisco MDS 9148S, 9396S, 9706, 9710 (16G)                                                                                                                                                                                                                                                                                                                                                         |
| <b>STORAGE</b><br>(Note: mixing multiple storage types in one system is supported)         | <b>Dell EMC Storage</b><br>Unity All Flash 350F, 450F, 550F, 650F<br>VMAX All Flash 250F/FX, 950F/FX<br>XtremIO X2S, X2R<br>Isilon All Flash, Hybrid and Archival F800, H600, H500, H400, A200, A2000                                                                                                                                                                                                                                                                                                                    |
| <b>VIRTUALIZATION</b>                                                                      | <b>VMware:</b> Vsphere Enterprise Plus (includes VDS), vRealize Log Insight, ESXi, vCenter Server                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>DATA PROTECTION</b>                                                                     | <b>Dell EMC:</b> Avamar; Data Protection Suite for VMware (Avamar Virtual Edition, NetWorker, Data Protection Search, Data Protection Advisor, Data Protection Central, CloudBoost, RecoverPoint for Virtual Machines); DD Boost for Enterprise Applications; Data Domain; Data Domain Virtual Edition; Virtual Storage Integrator for VMware vSphere Web Client; VPLEX; VPLEX Cluster Witness<br><b>VMware:</b> Site Recovery Manager and Site Recovery Advisor                                                         |
| <b>MANAGEMENT</b><br>(AMP-VX)                                                              | <b>Compute:</b> 4 to 8 Dell EMC PowerEdge R640 Gen 14 rack servers, 3.07 TB RAM, 1 x 20 Core, 2.4 Ghz, network 1 x quad port 10 GbE Base-T (X550), 2 x dual port 10/25 GbE SFP + NIC, 1 x iDRAC Enterprise 9, and storage 1 x 960 GB SSD (cache), 4 x 3.84 TB SSD (capacity)<br><b>Network:</b> Cisco Nexus 31108TC-V, Nexus 3232C<br><b>Software:</b> Vision software, Unisphere, InsightIQ (Isilon), Secure Remote Services (ESRS), Cisco Data Center Network Manager (DCNM) for LAN and SAN, Microsoft Windows Server |
| <b>CABINET</b>                                                                             | <b>Intelligent Physical Cabinet Solution from Dell EMC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

Note: Support for next-generation technologies planned for a future releases.



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